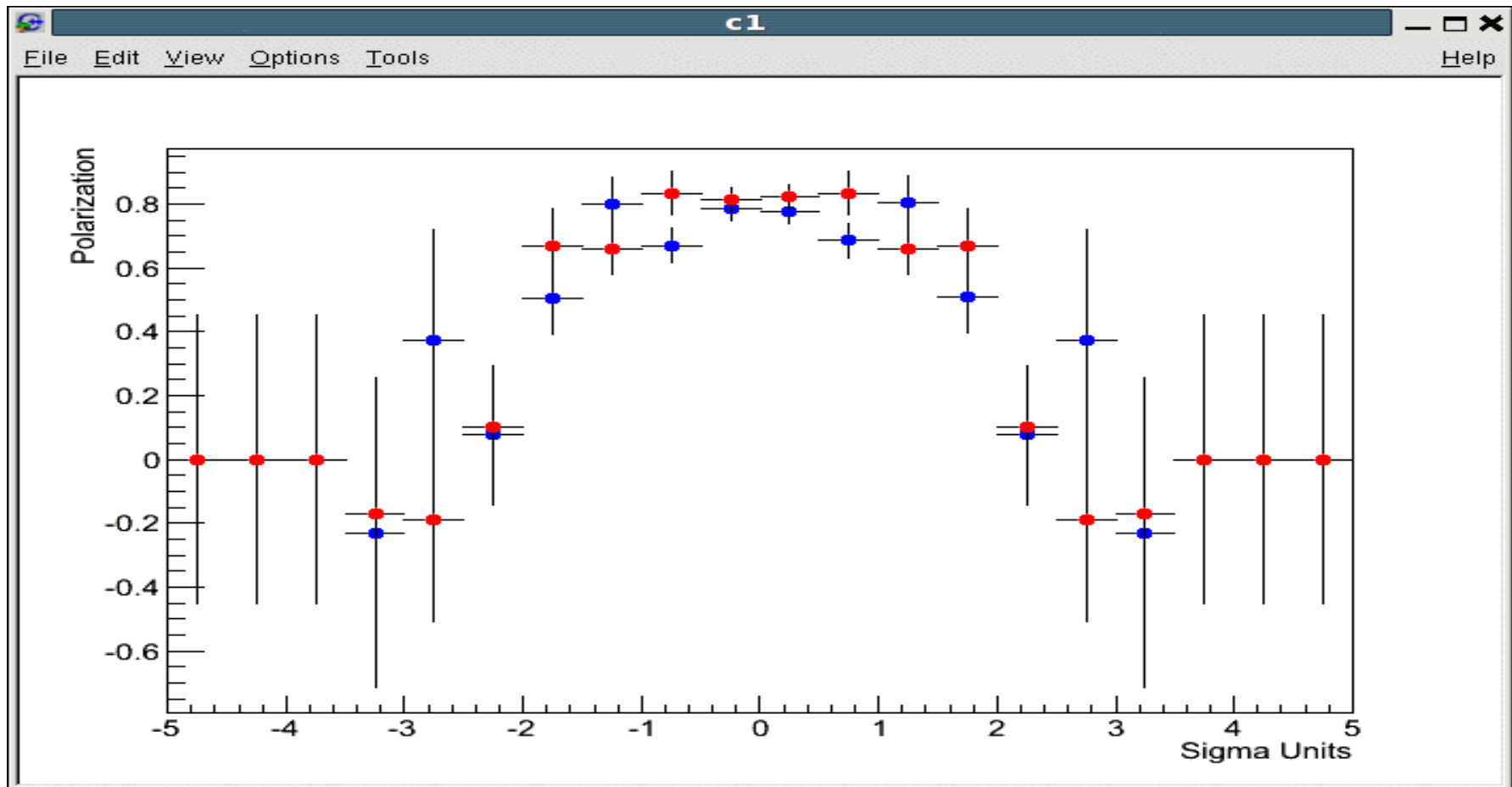


RSC Meeting April 5th

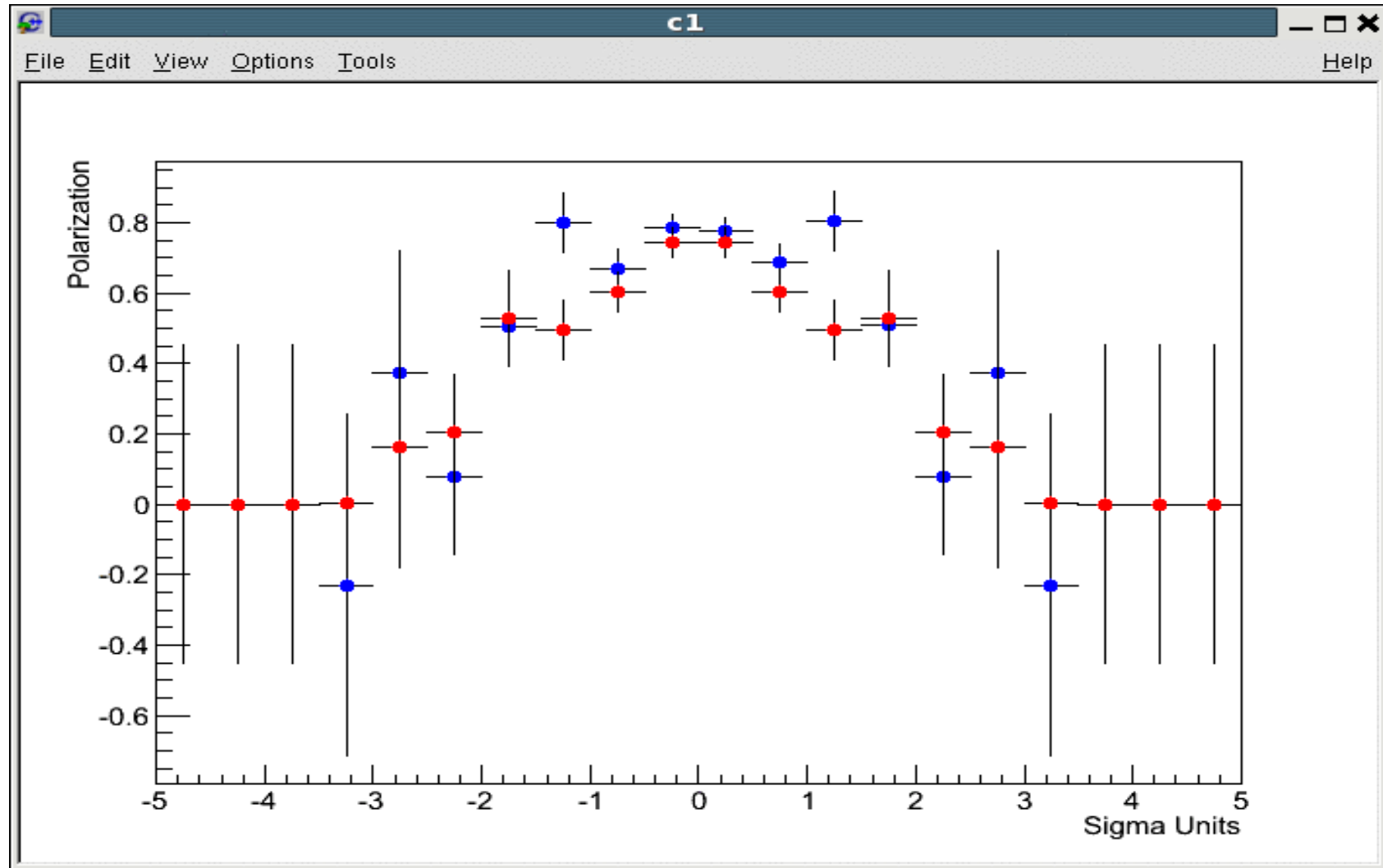
- E-lens post-mortem Polarization analysis:
 - Preliminary analysis of data:
 - Initial Tracking results.

Effect of gg260 Tune bump to 0.671 in Blue



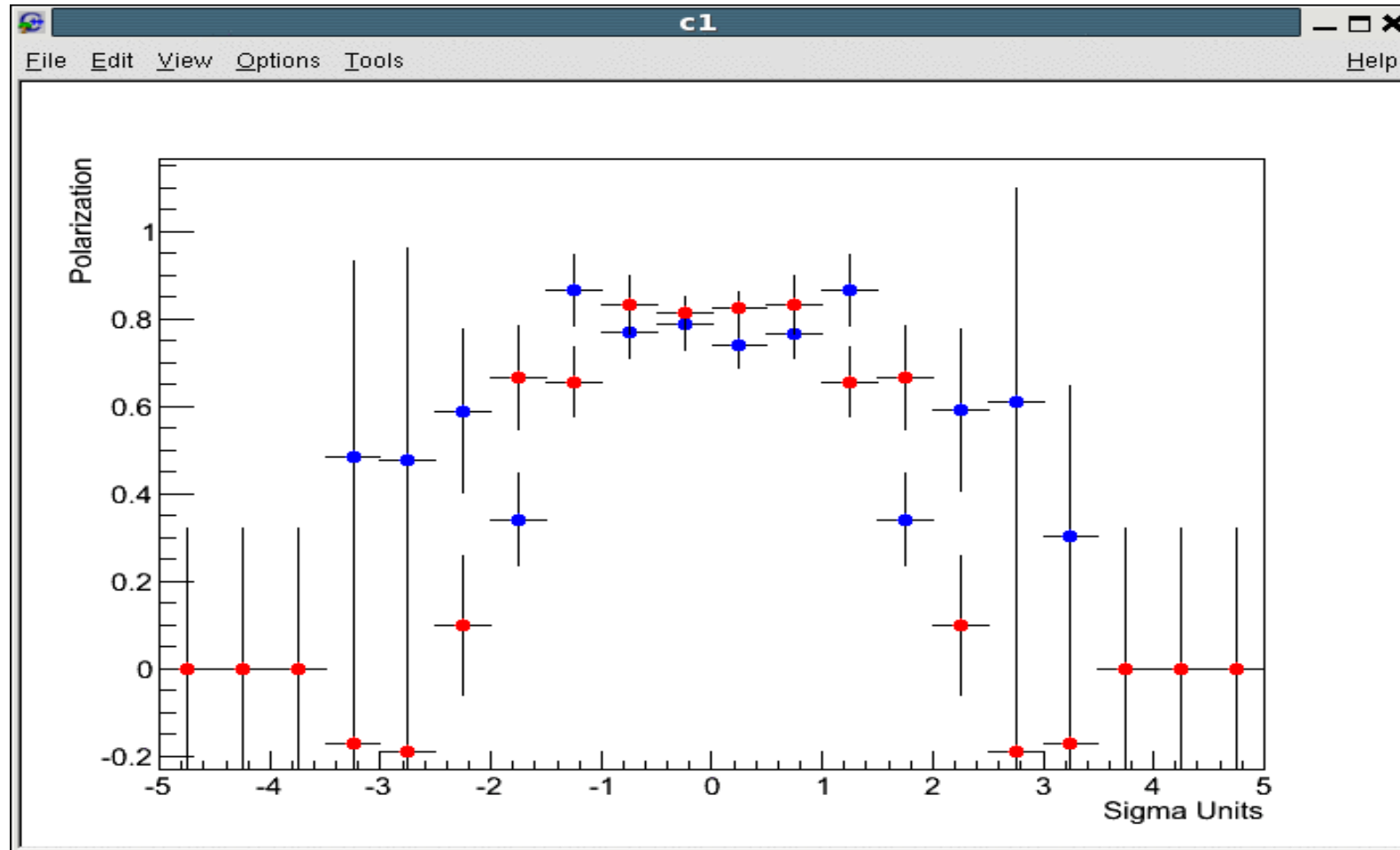
This is created by taking ratio of final profile to initial and averaging these over 6 fills for each. These are for fills 17159 to 17173 when we had only 0.673 tune swing in vertical (blue points) compared with 17268 - 17276 when we had 0.671 tune bump installed at gg260. All averages and divisions were done in root using their histogram functions. Also We had to use B1U for the 0.673 measurements and B2D for the bumped measurements. But both used Horizontal targets. (vertical profiles).

Effect of Blue tune swing to 0.673



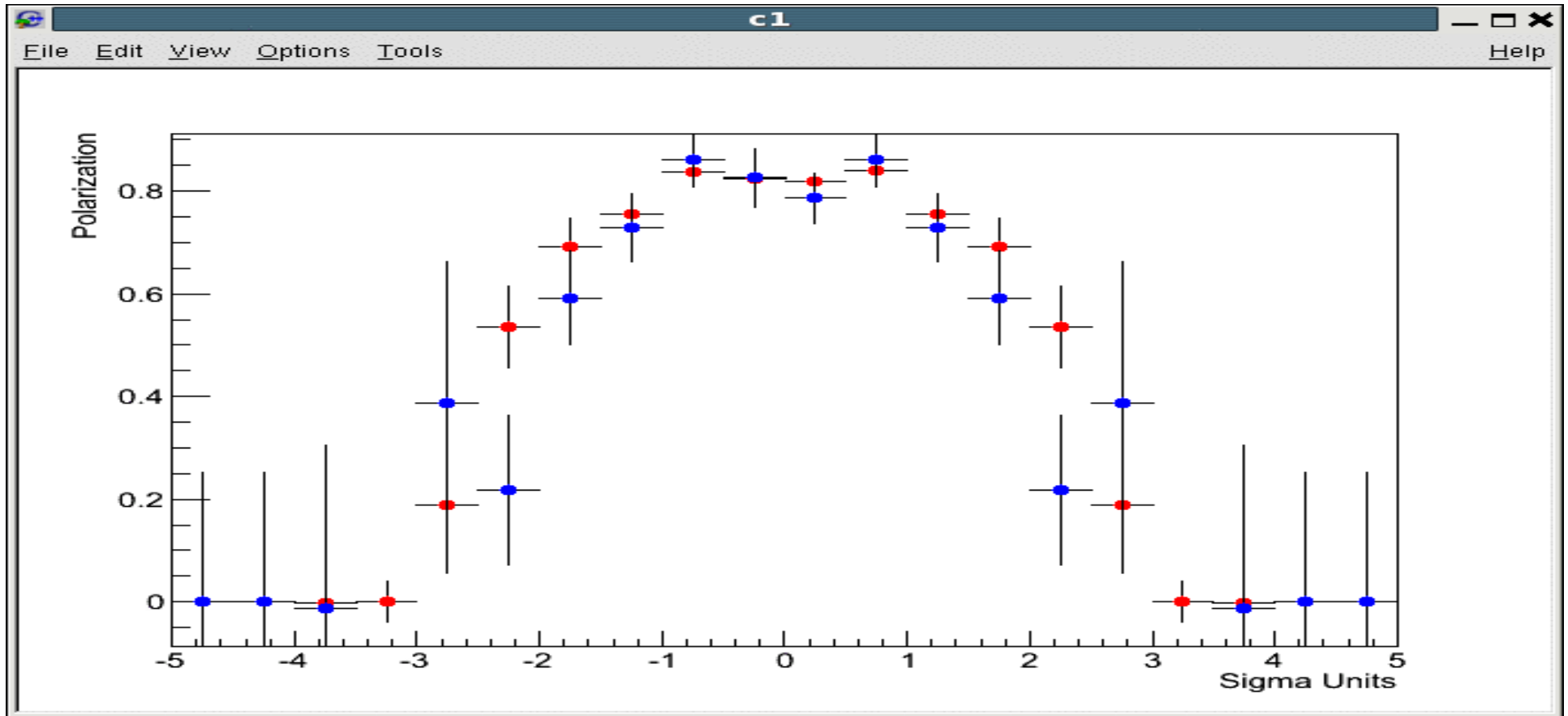
In this case only average over three fills for the non-tune(0.678) swing data (red) 17134 - 17137

Blue Horizontal tune bump: vertical profile



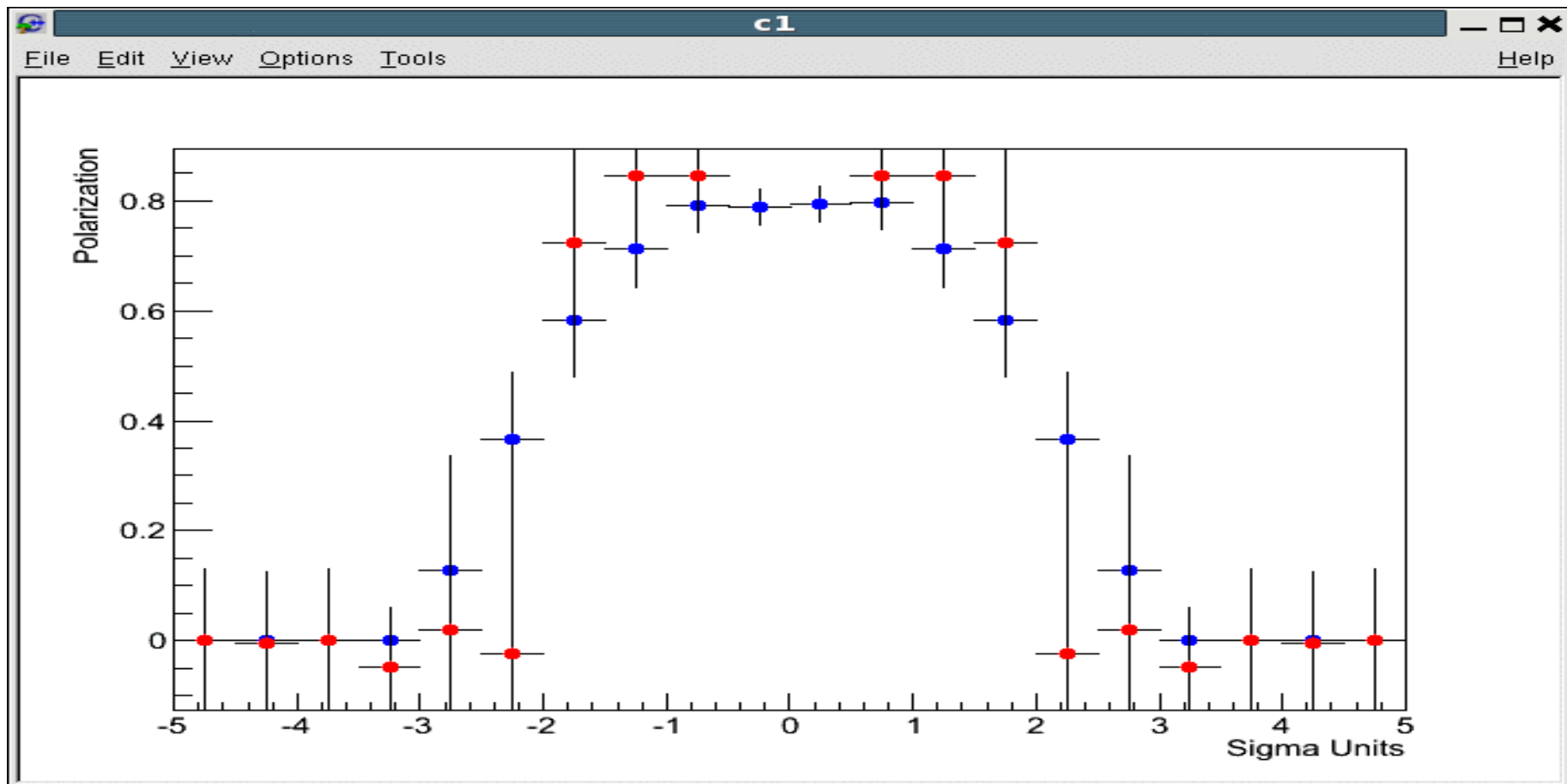
This is Horizontal Target using B2D polarimeter for both sets of data. Red points are with only the 0.671 vertical tune bump at gg260 (and general 0.673 tune swing). Blue points are with and additional horizontal tune bump to 0.68 at gg381 and 422, using fills 17315, 17317, 17318, 17322.

Blue Horizontal Tune bump Horizontal Profile



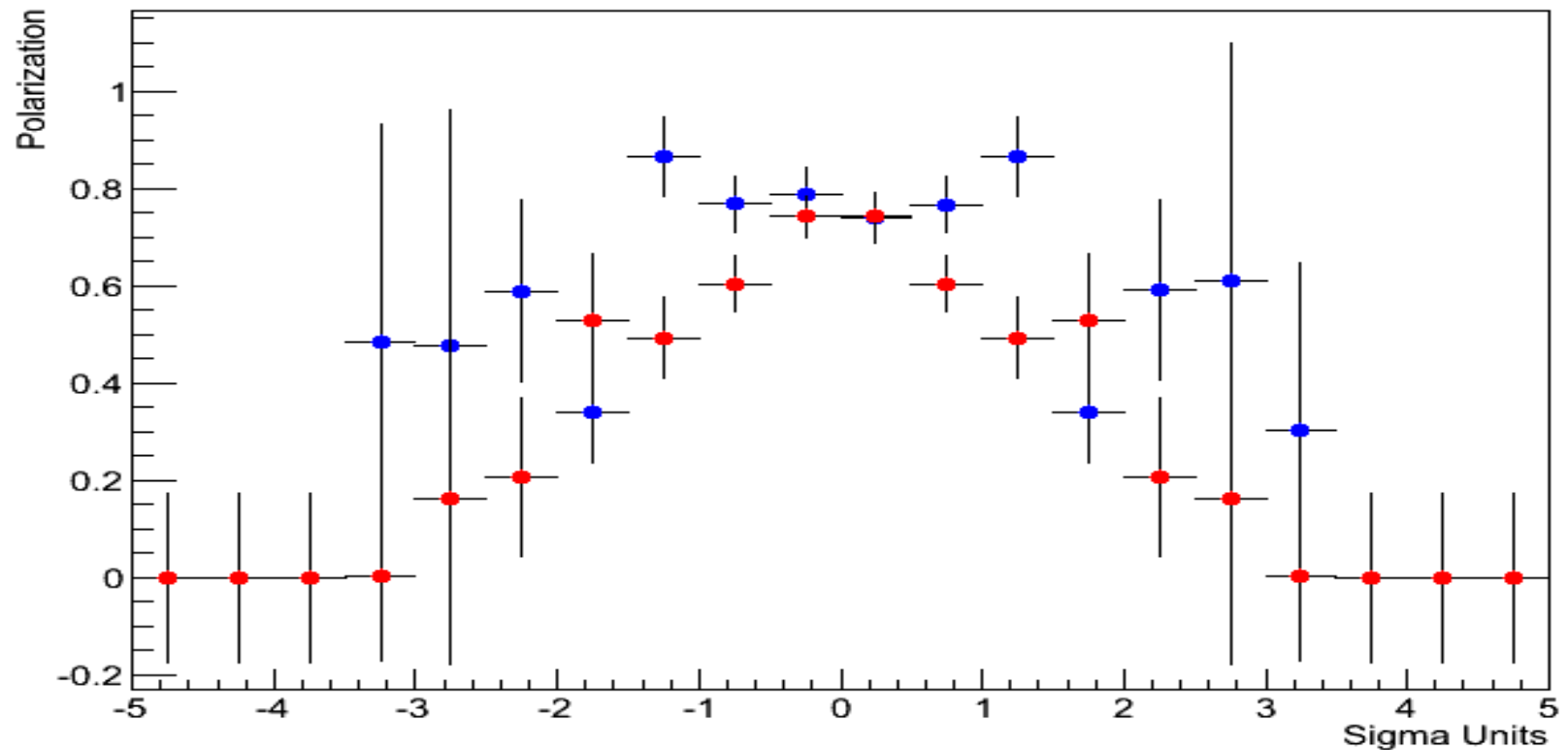
This is the Horizontal Profile ratio (Final/Initial) with the Qx 0.68 tune bump at gg422 and gg381 (blue) points made from four fills 17315,17317,17318,17322. without horizontal tune bump (red) for 18 fills 17268-17305

Yellow tune bump at gg422 and gg381, gg260



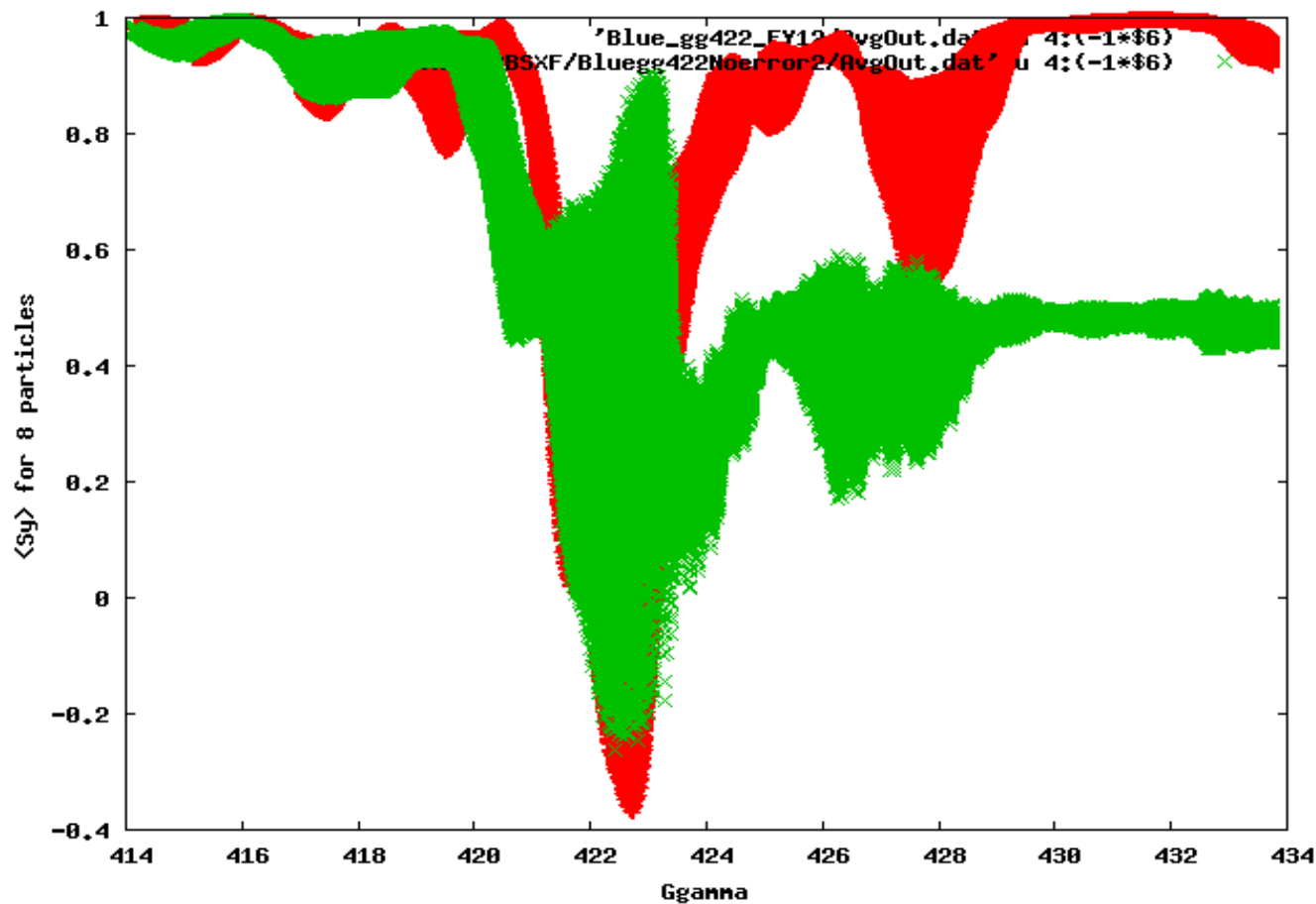
Vertical Profile using Y1D with Horizontal target. Red with tune swing + bumps at gg260 (.671) and gg381 and gg422 (0.6705). Ratio of Final/Initial averaged for fills: 17261,17263,17269,17266. Blue with tune swing only to (0.673) using fills 17159,17169,17173,17178,17183

Overall Tuning Effect in Blue

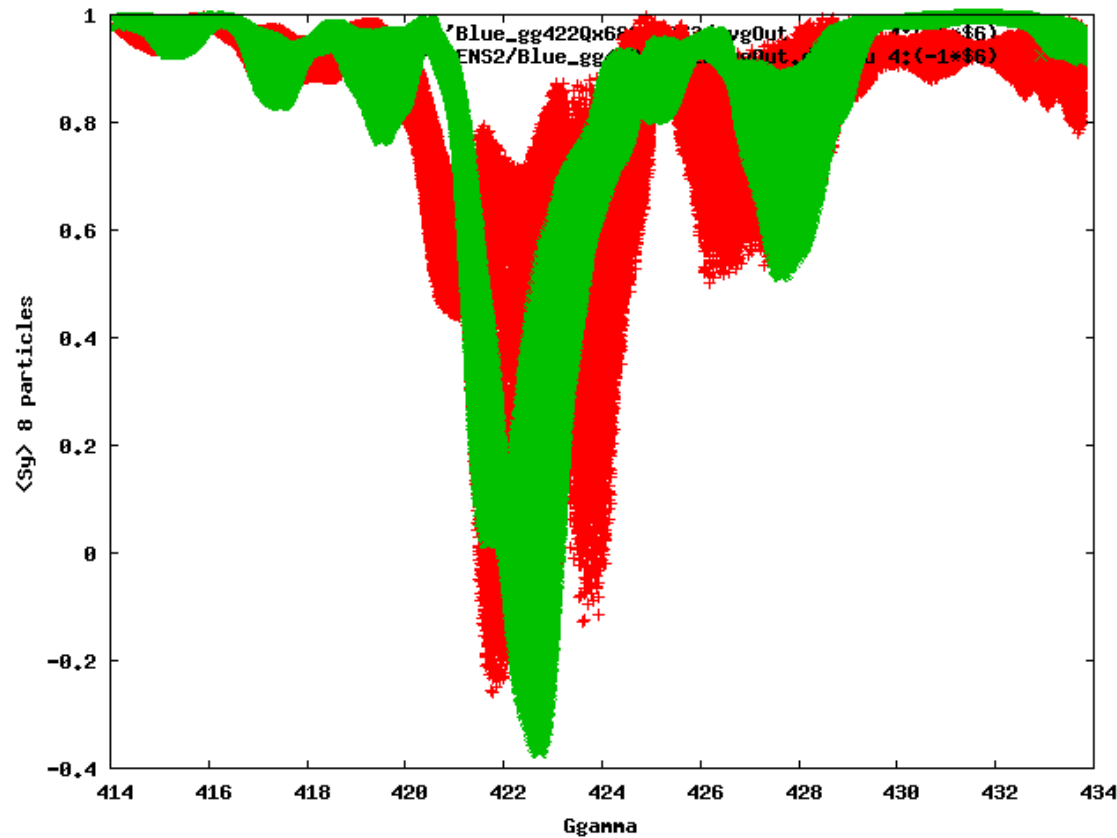


Red with only 0.678 tune swing, Blue with all bumps and 0.673 swing

Preliminary Tracking: Blue 8 particles on 3.33pi mm-mrad 3nsecs 10x fast acceleration



Blue: $Q_x=0.682$, $Q_y=0.673$
compared with FY12 lattice



Without Horizontal Emittance

